

## PRE-APPLICATION PART 2 INSTRUCTIONS

### CHAPTER 6b: Demonstration Projects and Studies for Contaminant Removal

These funds may be used by public water systems and public entities for contaminant treatment or removal technology pilot and demonstration studies for the following categories of contaminants:

- Petroleum products, such as MTBE (methyl-tert-butyl ether) and BTEX (benzene, toluene, ethyl benzene, xylene)
- N-Nitrosodimethylamine (NDMA)
- Perchlorate
- Radionuclides, such as radon, uranium, and radium
- Pesticides and herbicides
- Heavy metals, such as arsenic, mercury, and chromium
- Pharmaceuticals and endocrine disrupters

Eligible projects must address an existing problem in California. The applicant is responsible for continuing costs of operation and maintenance of demonstration facilities after the project is complete. After the adoption of the Project Priority List, potentially fundable applicants will be required to submit additional information as specified by the Department.

All submitted pre-applications are public information. Any information intended to be submitted in confidence should be clearly marked "Confidential"

No more than 30% of the funds within this program will be awarded to address a single contaminant category.

Projects dealing with MTBE or other oxygenates will be referred to the Drinking Water Treatment and Research Fund (DWTRF) to the extent that research funds are available from that program. For more information on the DWTRF visit the DHS website

(<http://www.dhs.ca.gov/ps/ddwem/chemicals/MTBE/mtbeindex.htm> ).

Maximum Grant: \$5 million

Minimum Grant: \$50,000

**The pre-application package for this grant program must not exceed 10 pages total, including Part 1, Part 2, and attachments (described below).**

- **You do not need to use all 10 pages.**
- **Any pages beyond the limit will not be reviewed.**
- **Do not attach a cover sheet or cover letter.**
- **Do not attach maps or drawings unless they are included in the page limit.**
- **All forms are to be completed in at least a 10-point font, on 8 ½ x 11 paper, with ½ inch margins all around.**
- **Electronic submittals are preferred (refer to submittal requirements).**

#### A. Project Title

Repeat the project title from Part 1 of the pre-application.

#### B. Applicant Water System

Repeat the DHS public water system identification number, the DHS public water system name, and the legal name of applicant from the Part 1 of the pre-application.

*Note: For Grant Program 6b **only**, public entities that are not public water systems must contact DHS to obtain an applicant identification number to be used in this field. These entities must contact Karen Verdina at [KVerdina@dhs.ca.gov](mailto:KVerdina@dhs.ca.gov) or 916-449-5156.*

C. Funding

1. Prop 50 Grant Funds Requested

Enter the amount of Prop 50 grant funds requested for this project. Note the maximum and minimum grant amounts for each grant program.

2. Amount of Matching Funds to be Provided

Enter the amount of matching funds to be provided by the applicant or others for this project. A 1:1 match of non-state funds is required for all grant awards, with the following exceptions: no match is required for grants to disadvantaged communities; no match is required for small water systems; matching funds for public water systems owned by state agencies may include state funds and services. Matching funds may include local sources (user fees, local taxes), federal sources (loan, grants), in-kind services, etc.

3. Anticipated Source of Matching Funds

Identify the anticipated sources and amount of matching funds on the Proposed Project Budget form (Attachment E). Refer to the Attachments section for more information.

D. Type of Study

Indicate the type of study proposed. For purposes of this program, the types of studies are defined as follows:

Demonstration Project: A treatment technology test, where the treatment facility is of sufficient capacity to be used as a permanent facility.

Pilot Study: An experiment or set of observations undertaken to decide how and whether to design and build a full-scale project.

Demonstration projects should have been preceded by a pilot study or bench scale study. List previous studies related to this project in the project description.

E. Problem Description

Describe the problem to be addressed by the project. What is the primary contaminant or contaminant category to be addressed by the project? Which drinking water sources for this water system are impacted? At what levels does the contaminant(s) occur in the source(s)? For detected contaminants provide the following information if available: number of samples collected, frequency of sampling, range of detected concentrations, average of detected concentrations (a table may be useful for presenting this information). How do these values compare to drinking water standards, Public Health Goals (PHGs), or action levels? What is the production volume of the source(s)? If known, also address the following questions: What is the estimated number of drinking water sources impacted by the contaminant(s) in the state? What is the estimated population in the state impacted by contaminated sources? Describe the problem in sufficient detail to allow reviewers to understand and evaluate the nature of the problem.

Begin the description in the space available on the form. Continue the description as necessary in an attachment (see attachment requirements below). Do not exceed the page limit.

F. Project Description

Provide a description of the proposed project or study and how it addresses the problem described in Question E. Describe the current status of the project. Explain how this treatment technology is new or used in a different way from previously approved technology for this contaminant. Describe how the

project will ensure compliance with drinking water standards. The description must include the following project elements, or describe how these elements will be addressed during the study, to the extent they are relevant to the proposed project.

- Qualifications of the applicant and project proponents to undertake the project.
- Proposed treatment methods
- Critical or controlling design and operational details
- Data collection and study protocol
- How the study will address ongoing operation and maintenance issues
- How the project involves a public purpose of statewide interest and concern
- Peer review component of the project (applicant must establish a technical advisory committee to review procedures, progress, and final report)
- Plan for public dissemination of the project results (must include submission of report a report to DHS)
- How the study will address affordability and level of operational expertise required
- How the study will address handling and disposal of residuals
- Preparation of an operation and maintenance manual for demonstration projects
- List of previous studies relevant to this project

Begin the description in the space available on the form. Continue the description as necessary in an attachment (see attachment requirements below). Do not exceed the page limit.

#### G. Attachments

You are limited to **6** pages total for attachments for this pre-application, with a maximum of 10 pages as stated for the entire pre-application. Attach the following information as necessary.

##### **Proposed Project Budget (REQUIRED)**

Using the format of Attachment E of this pre-application package, prepare a proposed project budget. As part of the budget, show the anticipated source and amount of matching funds for the project, as shown in Attachment E. Use one page or less for the budget and sources of matching funds.

##### **Additional detail for problem description**

Continue the problem description as necessary for Question E in an attachment.

##### **Additional detail for project description**

Continue the project description as necessary for Question F in an attachment.

#### H. Intellectual Property

Indicate that the applicant understands that all intellectual property developed pursuant to this grant program, including but not limited to copyrights, patents, and licenses, shall be the property of the State of California and shall remain in the public domain.